

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,
resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
fields
NEWS 5 AUG 02 Caplus and CA patent records enhanced with European and Japan
Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!
(Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS 13 SEP 27 STANDARDS will no longer be available on STN
NEWS 14 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:23:54 ON 07 OCT 2004

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 12:24:31 ON 07 OCT 2004

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FILE COVERS 1907 - 7 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 6 Oct 2004 (20041006/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> logoff hold
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.88	1.09

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:25:48 ON 07 OCT 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:31:43 ON 07 OCT 2004
FILE 'CAPLUS' ENTERED AT 12:31:43 ON 07 OCT 2004
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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.88	1.09

FULL ESTIMATED COST

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.88	1.09

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:31:54 ON 07 OCT 2004
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STRUCTURE FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4
DICTIONARY FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e carbon dioxide/cn

E1	1	CARBON DINITRIDE/CN
E2	1	CARBON DINITRIDE ION(2-)/CN
E3	1 -->	CARBON DIOXIDE/CN
E4	1	CARBON DIOXIDE (11CO2)/CN
E5	1	CARBON DIOXIDE (12C16O18O+)/CN
E6	1	CARBON DIOXIDE (12C17O16O)/CN
E7	1	CARBON DIOXIDE (12C18O2)/CN
E8	1	CARBON DIOXIDE (13C16O18O)/CN
E9	1	CARBON DIOXIDE (13C16O2)/CN
E10	1	CARBON DIOXIDE (13C18O2)/CN
E11	1	CARBON DIOXIDE (13C18OO)/CN
E12	1	CARBON DIOXIDE (13CO2)/CN

=> e3

L1 1 "CARBON DIOXIDE"/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 124-38-9 REGISTRY

CN Carbon dioxide (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Carbon oxide (CO2)

CN Carbon-12 dioxide

CN Carbon-12C dioxide-16O2

CN Carbonic acid anhydride

CN Carbonic acid gas

CN Carbonic anhydride

CN Dry ice

CN Khladon 744

CN R 744

FS 3D CONCORD

DR 18923-20-1

MF C O2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role

in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

O=C=O

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

180629 REFERENCES IN FILE CA (1907 TO DATE)
 694 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 180927 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e methane/cn

E1	1	METHANDROSTENOLONE GLUCURONIDE/CN
E2	1	METHANDROSTENOLONE SULFATE/CN
E3	1 -->	METHANE/CN
E4	1	METHANE (11CH4)/CN
E5	1	METHANE (13CD4)/CN
E6	1	METHANE (13CH2D2)/CN
E7	1	METHANE (13CH3D)/CN
E8	1	METHANE (13CH4)/CN
E9	1	METHANE (13CHD3)/CN
E10	1	METHANE (CD2T2)/CN
E11	1	METHANE (CD3H+)/CN
E12	1	METHANE (CD4)/CN

=> e3

L2 1 METHANE/CN

=> l2

L3 1 METHANE/CN

=> d l3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 74-82-8 REGISTRY

CN **Methane** (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Biogas

CN Marsh gas

CN Methyl hydride

CN R 50

CN R 50 (refrigerant)

FS 3D CONCORD

DR 131452-56-7

MF C H4

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,

CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DETHERM*,
DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*,
HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSH TIC, PDL COM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA,
ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CH₄

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

107029 REFERENCES IN FILE CA (1907 TO DATE)
3612 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
107187 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
17.67	18.76

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:33:19 ON 07 OCT 2004

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FILE COVERS 1907 - 7 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 6 Oct 2004 (20041006/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l1/rct

181099 L1
2664707 RCT/RL
L4 18266 L1/RCT
(L1 (L) RCT/RL)

=> l2/rct

107266 L2
2664707 RCT/RL
L5 22523 L2/RCT
(L2 (L) RCT/RL)

=> l4(l)l5

L6 0 L4(L)L5

=> l4 and l5

L7 1541 L4 AND L5

=> vanadium or V

145353 VANADIUM
27 VANADIUMS
145357 VANADIUM
(VANADIUM OR VANADIUMS)
1010653 V
L8 1078373 VANADIUM OR V

=> l7 and l8

L9 52 L7 AND L8

=> anhydride

190862 ANHYDRIDE
30811 ANHYDRIDES
L10 200757 ANHYDRIDE
(ANHYDRIDE OR ANHYDRIDES)

=> l9 and l10

L11 1 L9 AND L10

=> d l11

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:597014 CAPLUS
DN 139:260939
TI Synthesis of Mixed Acid **Anhydrides** from Methane and Carbon
Dioxide in Acid Solvents
AU Zerella, Mark; Mukhopadhyay, Sudip; Bell, Alexis T.
CS Department of Chemical Engineering, University of California-Berkeley,
Berkeley, CA, 94720, USA
SO Organic Letters (2003), 5(18), 3193-3196
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 139:260939
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	13.68	32.44

FILE 'REGISTRY' ENTERED AT 12:37:53 ON 07 OCT 2004
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STRUCTURE FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4
DICTIONARY FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e acetic acid/cn

E1	1	ACETIC 6-PROPIONAMIDOHEXOIC ANHYDRIDE/CN
E2	1	ACETIC ACETOXYACETIC ANHYDRIDE/CN
E3	1 -->	ACETIC ACID/CN
E4	1	ACETIC ACID ((5-PHENYL-1H-PYRROLO(2,3-B)PYRIDIN-3-YL)CARBAMOYL)METHYL) ESTER/CN
E5	1	ACETIC ACID ((1-((4-((1-(3-FLUOROBENZYL)-1H-INDAZOL-5-YL)AMINO)PYRROLO(2,1-F)(1,2,4)TRIAZIN-5-YL)METHYL)PIPERIDIN-4-YL)CARBAMOYL)METHYL) ESTER/CN
E6	1	ACETIC ACID ((2-((3-CHLORO-4-(2-METHYLBENZOYL)PHENYL)AMINO)PHENYL)CARBAMOYL)METHYL) ESTER/CN
E7	1	ACETIC ACID ((3-((3-BENZYL-5-(3-METHYL-3H-BENZOTHAZOL-2-YLIDENE)-4-OXOTHAZOLIDIN-2-YLIDENE)AMINO)-4-ETHYLAMINOPHENYL)CARBAMOYL)METHYL) ESTER/CN
E8	1	ACETIC ACID ((4-((1-(3-FLUOROBENZYL)-1H-INDAZOL-5-YL)AMINO)PYRROLO(2,1-F)(1,2,4)TRIAZIN-5-YL)METHYL) ESTER/CN
E9	1	ACETIC ACID ((4-CHLOROPYRROLO(2,1-F)(1,2,4)TRIAZIN-5-YL)METHYL) ESTER/CN
E10	1	ACETIC ACID (1-(2-ACETOXY-2-(1-(4-CHLOROPHENYL)CYCLOBUTYL)ETHYL)-4-PHENYLPYPERIDIN-4-YL)METHYL) ESTER/CN
E11	1	ACETIC ACID (1-(2-ACETOXY-2-(4-CHLOROPHENYL)ETHYL)-4-PHENYLPYPERIDIN-4-YL)METHYL) ESTER/CN
E12	1	ACETIC ACID (1S*,9BS*)-8-CHLORO-1-(3,5-DIMETHOXYPHENOXY)-2,4-DIOXO-9B-PHENYL-1,3,4,9B-TETRAHYDRO-2H-2A,5-DIAZABENZO(A)CYCLOBUTA(C)CYCLOHEPTEN-5-YLMETHYL) ESTER/CN

=> e3

L12 1 "ACETIC ACID"/CN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.85	37.29

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FILE COVERS 1907 - 7 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 6 Oct 2004 (20041006/ED)

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=> l12

L13 87602 L12

=> d his

(FILE 'HOME' ENTERED AT 12:23:54 ON 07 OCT 2004)

FILE 'CAPLUS' ENTERED AT 12:24:31 ON 07 OCT 2004

FILE 'REGISTRY' ENTERED AT 12:31:54 ON 07 OCT 2004

E CARBON DIOXIDE/CN

L1 1 E3

E METHANE/CN

L2 1 E3

L3 1 L2

FILE 'CAPLUS' ENTERED AT 12:33:19 ON 07 OCT 2004

L4 18266 L1/RCT

L5 22523 L2/RCT

L6 0 L4(L) L5

L7 1541 L4 AND L5

L8 1078373 VANADIUM OR V

L9 52 L7 AND L8

L10 200757 ANHYDRIDE

L11 1 L9 AND L10

FILE 'REGISTRY' ENTERED AT 12:37:53 ON 07 OCT 2004

E ACETIC ACID/CN

L12 1 E3

FILE 'CAPLUS' ENTERED AT 12:38:27 ON 07 OCT 2004

L13 87602 L12

=> l9 and l13

L14 5 L9 AND L13

=> d l14 1-5 ti fbib abs

L14 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of Mixed Acid Anhydrides from Methane and Carbon Dioxide in Acid Solvents

AN 2003:597014 CAPLUS

DN 139:260939

TI Synthesis of Mixed Acid Anhydrides from Methane and Carbon Dioxide in Acid Solvents

AU Zerella, Mark; Mukhopadhyay, Sudip; Bell, Alexis T.

CS Department of Chemical Engineering, University of California-Berkeley,

Berkeley, CA, 94720, USA
 SO Organic Letters (2003), 5(18), 3193-3196
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 139:260939
 AB The reaction of CH₄ with CO₂ has been performed in anhydrous acids using VO(acac)₂ and K₂S₂O₈ as promoters. NMR anal. establishes that the primary product is a mixed anhydride of acetic acid and the acid solvent. In sulfuric acid, the overall reaction is CH₄ + CO₂ + SO₃ → CH₃C(O)-O-SO₃H. Hydrolysis of the mixed anhydride produces acetic acid and the solvent acid. When trifluoroacetic acid is the solvent, acetic acid is primarily formed via the reaction CH₄ + CF₃COOH → CH₃COOH + CHF₃.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Catalysts for the oxidative dehydrogenation of hydrocarbons
 AN 2002:220448 CAPLUS
 DN 136:250124
 TI Catalysts for the oxidative dehydrogenation of hydrocarbons
 IN Cantrell, Rick David; Ghenciu, Anca; Campbell, Kenneth Dwight; Minahan, David Michael Anthony; Bhasin, Madan Mohan; Westwood, Alistair Duncan; Nielsen, Kenneth Andrew
 PA Union Carbide Chemicals & Plastics Technology Corporation, USA
 SO PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022258	A2	20020321	WO 2001-US28924	20010913
WO 2002022258	A3	20020620		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6403523	B1	20020611	US 2000-664954	A 20000918
AU 2001091002	A5	20020326	US 2000-664954	20000918
			AU 2001-91002	20010913
			US 2000-664954	A 20000918
BR 2001014462	A	20030701	WO 2001-US28924	W 20010913
			BR 2001-14462	20010913
			US 2000-664954	A 20000918
EP 1326710	A2	20030716	WO 2001-US28924	W 20010913
			EP 2001-971071	20010913
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
			US 2000-664954	A 20000918
JP 2004508190	T2	20040318	WO 2001-US28924	W 20010913
			JP 2002-526500	20010913
			US 2000-664954	A 20000918
US 2002173420	A1	20021121	WO 2001-US28924	W 20010913
US 6576803	B2	20030610	US 2002-124564	20020416
			US 2000-664954	A3 20000918
NO 2003001210	A	20030516	NO 2003-1210	20030317

US 2000-664954

A 20000918

WO 2001-US28924

W 20010913

AB The present invention provides a catalyst for the oxidative dehydrogenation of a lower hydrocarbon to form at least one higher hydrocarbon and/or lower olefin. In one embodiment, the catalyst includes a nonstoichiometric rare earth oxycarbonate of the formula $MxCyOz$ having a disordered and/or defect structure, wherein M is at least one rare earth element selected from the group consisting of La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, and Tm; $X = 2$; $Z = 3 + AY$; A is less than .apprx.1.8, and Y is the number of carbon atoms in the oxycarbonate. When used for the oxidative dehydrogenation of a lower hydrocarbon at a pressure above about 100 psig. the catalyst has a selectivity of at least .apprx.40% to at least one higher hydrocarbon and/or lower olefin. Methods for preparing catalysts taught by the invention and processes for using the catalysts for the oxidative dehydrogenation of lower hydrocarbons are also provided.

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Process for the preparation of carboxylic acid

AN 1998:561166 CAPLUS

DN 129:230454

TI Process for the preparation of carboxylic acid

IN Fujiwara, Yuzo; Kitamura, Kazuo; Taniguchi, Hiroki

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10226665	A2	19980825	JP 1997-47839	19970303
				JP 1996-329965	19961210

OS CASREACT 129:230454

AB Characterized is a process for preparation of the title compds. (I) by reacting alkanes with CO or CO₂ in the presence of oxidants and **vanadium** catalysts. This process produces I in an industrial manner efficiently and economically. Thus, CH₄ was reacted with CO in the presence of VO(acac)₂ and K₂S₂O₈ at 80° for 20 h under 5 atm to give 34.5% AcOH.

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Carboxylation of methane with CO or CO₂ in aqueous solution catalyzed by **vanadium** complexes

AN 1998:544982 CAPLUS

DN 129:303938

TI Carboxylation of methane with CO or CO₂ in aqueous solution catalyzed by **vanadium** complexes

AU Nizova, Galina V.; Shul'pin, Georgiy B.; Nizova, Galina V.; Suss-Fink, Georg; Stanislas, Sandrine

CS Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, 117977, Russia

SO Chemical Communications (Cambridge) (1998), (17), 1885-1886

CODEN: CHCOFS; ISSN: 1359-7345

PB Royal Society of Chemistry

DT Journal

LA English

AB Carboxylation of CH₄ with CO or CO₂ in aqueous solution in the presence of O (catalyzed by NaVO₃) or H₂O₂ (catalyzed by NaVO₃-pyrazine-2-carboxylic acid) at 25-100° affords AcOH and, in some cases, also MeOH, MeO₂H and HCHO.

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI **Vanadium**-catalyzed acetic acid synthesis from methane and carbon

dioxide
 AN 1998:322029 CAPLUS
 DN 129:42531
 TI Vanadium-catalyzed acetic acid synthesis from methane and carbon dioxide
 AU Taniguchi, Yuki; Hayashida, Taizo; Kitamura, Tsugio; Fujiwara, Yuzo
 CS Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, 812-81, Japan
 SO Studies in Surface Science and Catalysis (1998), 114(Advances in Chemical Conversions for Mitigating Carbon Dioxide), 439-442
 CODEN: SSCTDM; ISSN: 0167-2991
 PB Elsevier Science B.V.
 DT Journal
 LA English
 AB The preparation of AcOH from CO2 and CH4 was carried out using K2S2O8 in TFA and VO(acac)2 as catalyst.
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 => logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	24.63	61.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

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FULL ESTIMATED COST	24.63	61.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

=> d his

(FILE 'HOME' ENTERED AT 12:23:54 ON 07 OCT 2004)

FILE 'CAPLUS' ENTERED AT 12:24:31 ON 07 OCT 2004

FILE 'REGISTRY' ENTERED AT 12:31:54 ON 07 OCT 2004

E CARBON DIOXIDE/CN

L1 1 E3

E METHANE/CN
L2 1 E3
L3 1 L2

FILE 'CAPLUS' ENTERED AT 12:33:19 ON 07 OCT 2004

L4 18266 L1/RCT
L5 22523 L2/RCT
L6 0 L4(L) L5
L7 1541 L4 AND L5
L8 1078373 VANADIUM OR V
L9 52 L7 AND L8
L10 200757 ANHYDRIDE
L11 1 L9 AND L10

FILE 'REGISTRY' ENTERED AT 12:37:53 ON 07 OCT 2004

E ACETIC ACID/CN
L12 1 E3

FILE 'CAPLUS' ENTERED AT 12:38:27 ON 07 OCT 2004

L13 87602 L12
L14 5 L9 AND L13

=> save temp all caboxyltn/l

L# LIST L1-L14 HAS BEEN SAVED AS 'CABOXYLTN/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	25.51	62.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

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PASSWORD:

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FILE 'CAPLUS' ENTERED AT 13:28:05 ON 07 OCT 2004
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	25.51	62.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	25.51	62.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.50	-3.50

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STRUCTURE FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4
 DICTIONARY FILE UPDATES: 6 OCT 2004 HIGHEST RN 757927-15-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e vanadium pentoxide/cn

E1	1	VANADIUM PENTAFLUORIDE/CN
E2	1	VANADIUM PENTAFLUORIDE ION(1-)/CN
E3	1 -->	VANADIUM PENTOXIDE/CN
E4	1	VANADIUM PENTOXIDE HYDRATE/CN
E5	1	VANADIUM PENTOXIDE HYDRATE (2:3)/CN
E6	1	VANADIUM PENTOXIDE MONOHYDRATE/CN
E7	1	VANADIUM PENTYLOXIDE/CN
E8	1	VANADIUM PERCHLORATE (V(CLO4)2)/CN
E9	1	VANADIUM PERCHLORATE (V(CLO4)4)/CN
E10	1	VANADIUM PERCHLORATE (V(CLO4)5)/CN
E11	1	VANADIUM PERMENDUR/CN
E12	1	VANADIUM PEROXIDE (V(O2)2), (T-4) -/CN

=> e3

L15 1 "VANADIUM PENTOXIDE"/CN

=> d l15

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 1314-62-1 REGISTRY

CN Vanadium oxide (V2O5) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN C.I. 77938

CN Divanadium pentaoxide

CN Divanadium pentoxide

CN Pentaoxidivanadium

CN Vanadia

CN Vanadic anhydride

CN Vanadium oxide

CN Vanadium oxide (V4O10)

CN **Vanadium pentoxide**

CN Vanadium(V) oxide

DR 12503-98-9, 166165-37-3, 172928-47-1, 56870-07-6, 87854-55-5, 87854-56-6,
 184892-22-6, 200577-85-1, 203812-34-4, 251927-12-5, 410546-90-6,
 581075-33-4

MF 05 V2

CI COM, MAN

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*,
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IPICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2,
USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

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DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
(Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties);
RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

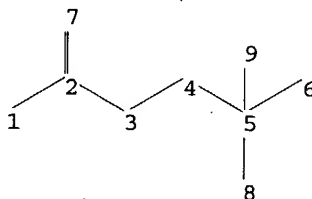
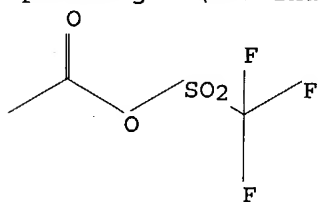
22028 REFERENCES IN FILE CA (1907 TO DATE)

263 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

22057 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>
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chain nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-2 2-3 2-7 3-4 4-5 5-6 5-8 5-9

exact/norm bonds :

2-3 2-7 3-4

exact bonds :

1-2 4-5 5-6 5-8 5-9

Match level :

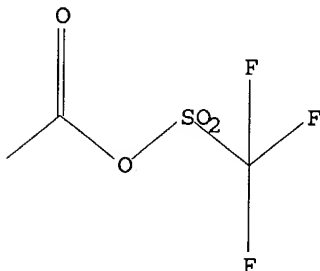
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L16 STRUCTURE UPLOADED

=> d l16

L16 HAS NO ANSWERS

L16 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l16 exact full

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

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=> search l16 exact full

FULL SEARCH INITIATED 13:34:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L17 1 SEA EXA FUL L16

=> d l17

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 40640-72-0 REGISTRY

CN Acetic acid, anhydride with trifluoromethanesulfonic acid (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acetic trifluoromethanesulfonic anhydride

FS 3D CONCORD

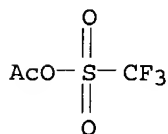
MF C3 H3 F3 O4 S

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL
(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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	ENTRY	SESSION
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FILE COVERS 1907 - 7 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 6 Oct 2004 (20041006/ED)

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=> l17

L18 6 L17

=> d l18 1-6 ti

L18 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
TI Two-step process for the preparation of triflic anhydride

L18 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
TI Electrophilic aromatic substitution. 24. Carboxylic trifluoromethanesulfonic and methanesulfonic anhydrides synthesis and dissociation tendency

L18 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and reactions of sulfenic trifluoromethanesulfonic anhydrides

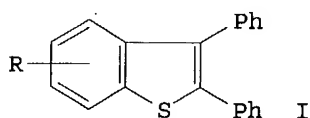
L18 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
TI Stereochemistry and mechanism of acylation of acetylenes

L18 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
TI Mechanism of the C-acylation of aromatic and ethylenic compounds. XIII. Structure of trifluoromethanesulfonic acid (and fluorosulfonic acid) and acetic anhydride mixtures. Existence range and formation mechanism of the acetylium ion

L18 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Mechanism of acetylum ion formation from ambident base acetic
 trifluoromethanesulfonic anhydride

=> d l18 3 ti fbib abs

L18 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthesis and reactions of sulfenic trifluoromethanesulfonic anhydrides
 AN 1983:106904 CAPLUS
 DN 98:106904
 TI Synthesis and reactions of sulfenic trifluoromethanesulfonic anhydrides
 AU Effenberger, Franz; Russ, Werner
 CS Inst. Org. Chem., Univ. Stuttgart, Stuttgart, D-7000/80, Fed. Rep. Ger.
 SO Chemische Berichte (1982), 115(12), 3719-36
 CODEN: CHBEAM; ISSN: 0009-2940
 DT Journal
 LA German
 OS CASREACT 98:106904
 GI



AB Sulfenyl halides 4-RC6H4SCl (R = MeO, Me, Cl, NO2, H) and R1SCl (R1 = Me, Et) reacted with AgOSO2CF3 to give good yields of anhydrides 4-RC6H4SOSO2CF3 and R1SOSO2CF3, which could not be isolated because of their instability. 1H NMR of R1SOSO2CF3 in CH2Cl2 and MeNO2 indicated dissociation to adducts of alkylsulfenyl ions and the solvent. 4-RC6H4SOSO2CF3 did not react with aromatic compds. (C6H6, 4-MeOPh, PhMe, etc.) but added smoothly to PhC.tplbond.CPh to give 4-RC6H4SCPh:CPhOSO2CF3 which, under the reaction conditions cyclized immediately to give excellent yields of benzothiophenes I.

=> d l18 1,2, 4-6 ti fbib abs

L18 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Two-step process for the preparation of triflic anhydride
 AN 2001:676744 CAPLUS
 DN 135:226715
 TI Two-step process for the preparation of triflic anhydride
 IN Hembre, Robert Thomas; Lin, Robert
 PA Eastman Chemical Company, USA
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001066516	A1	20010913	WO 2001-US6704	20010301
	W: JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
				US 2000-187832P	P 20000308
				US 2001-792995	A 20010226
	US 2002002301	A1	20020103	US 2001-792995	20010226
	US 6469206	B2	20021022		
				US 2000-187832P	P 20000308

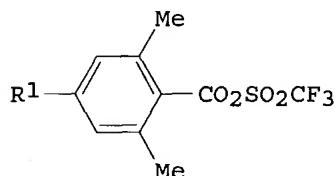
EP 1261582 A1 20021204 EP 2001-914629 20010301
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR

US 2000-187832P P 20000308
 US 2001-792995 A 20010226
 WO 2001-US6704 W 20010301
 JP 2003525926 T2 20030902 JP 2001-565334 20010301
 US 2000-187832P P 20000308
 US 2001-792995 A 20010226
 WO 2001-US6704 W 20010301

OS CASREACT 135:226715; MARPAT 135:226715
 AB Trifluoromethanesulfonic acid anhydride is prepared in high yield and selectivity by: (1) forming a mixed anhydride comprising a trifluoromethanesulfonyl residue and a carboxyl residue by contacting trifluoromethanesulfonic acid or a derivative of a carboxyl compound [selected from ketene, dialkyl ketenes (e.g., di-Me ketene), carboxylic acids, acyl halides, and carboxylate salts]; and (2) subjecting the mixed anhydride to reactive distillation where the mixed anhydride undergoes disproportionation to produce triflic anhydride and a higher-boiling carboxylic acid anhydride (e.g., acetic anhydride).

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Electrophilic aromatic substitution. 24. Carboxylic trifluoromethanesulfonic and methanesulfonic anhydrides synthesis and dissociation tendency
 AN 1983:160182 CAPLUS
 DN 98:160182
 TI Electrophilic aromatic substitution. 24. Carboxylic trifluoromethanesulfonic and methanesulfonic anhydrides synthesis and dissociation tendency
 AU Effenberger, Franz; Epple, Gerhard; Eberhard, Joachim K.; Buehler, Ulrich; Sohn, Erich
 CS Inst. Org. Chem., Univ. Stuttgart, Stuttgart, D-7000/80, Fed. Rep. Ger.
 SO Chemische Berichte (1983), 116(3), 1183-94
 CODEN: CHBEAM; ISSN: 0009-2940
 DT Journal
 LA German
 OS CASREACT 98:160182
 GI



II

AB RCOCl (R = Ph, substituted Ph, alkyl, vinyl, styryl) reacted with CF₃SO₃Ag or CF₃SO₃H to give RCO₂SO₂CF₃ (I) and with MeSO₃Ag to give RCO₂SO₂Me. Dissociation of I occurred even in ClCH₂CH₂Cl. The dissociation consts. of II (R1 = H, Me, MeO, Cl, NO₂) had an LFER in σ_p values with ρ -1.614.

L18 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Stereochemistry and mechanism of acylation of acetylenes
 AN 1975:154798 CAPLUS
 DN 82:154798
 TI Stereochemistry and mechanism of acylation of acetylenes
 AU Martens, H.; Janssens, F.; Hoornaert, G.

CS Lab. Org Synth., Univ. Leuven, Heverlee, Belg.
 SO Tetrahedron (1975), 31(2), 177-83
 CODEN: TETRAB; ISSN: 0040-4020
 DT Journal
 LA English
 AB The addition of acid chloride-AlCl₃ complexes and acyl trifluoromethanesulfonates (triflates) to alkynes occurs at least partly via vinyl cation intermediates. With aroyl chlorides and triflates the intermediate may be attacked by the aromatic nucleus to give indenones. The greater indenone formation by triflates is explained by the hardness of F₃CSO₃- compared to AlCl₄-. Electron donating and withdrawing substituents in the acid chlorides favored trans and cis addition, resp.

L18 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

TI Mechanism of the C-acylation of aromatic and ethylenic compounds. XIII. Structure of trifluoromethanesulfonic acid (and fluorosulfonic acid) and acetic anhydride mixtures. Existence range and formation mechanism of the acetylium ion

AN 1974:47251 CAPLUS

DN 80:47251

TI Mechanism of the C-acylation of aromatic and ethylenic compounds. XIII. Structure of trifluoromethanesulfonic acid (and fluorosulfonic acid) and acetic anhydride mixtures. Existence range and formation mechanism of the acetylium ion

AU Germain, Alain; Commeyras, Auguste; Casadevall, Andre

CS Lab. Intermediaires React. Mec. React., Univ. Sci. Tech. Languedoc, Montpellier, Fr.

SO Bulletin de la Societe Chimique de France (1973), (7-8) (Pt. 2), 2527-31
 CODEN: BSCFAS; ISSN: 0037-8968

DT Journal

LA French

AB An ir and NMR study of Ac₂O-CF₃SO₃H mixts. showed that formation of MeC+:O occurred through an intermediate mixed anhydride AcOSO₂CF₃ which was an ambident base, being protonated on the carbonyl group when Ac₂O was the solvent and on the sulfonyl group when CF₃SO₃H was the solvent.

L18 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

TI Mechanism of acetylium ion formation from ambident base acetic trifluoromethanesulfonic anhydride

AN 1973:96767 CAPLUS

DN 78:96767

TI Mechanism of acetylium ion formation from ambident base acetic trifluoromethanesulfonic anhydride

AU Germain, A.; Commeyras, A.

CS Lab. Chim. Org., Univ. Sci. Tech. Languedoc, Montpellier, Fr.

SO Journal of the Chemical Society, Chemical Communications (1972), (24), 1345-6

CODEN: JCCCAT; ISSN: 0022-4936

DT Journal

LA English

AB The ir spectra of mixts. of Ac₂O and CF₃SO₃H showed that AcOSO₂CF₃ was an ambident base with either CO or SO protonated. In very strong acid it dissociated to form Ac+. An NMR determination showed a pos. entropy of formation

indicating heterolysis of the protonated mixed anhydride.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

19.80

147.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.20

-7.70

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:38:57 ON 07 OCT 2004